(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

15 July 2004 (15.07.2004)

International Bureau (43) International Publication Date

(10) International Publication Number WO 2004/059955 A1

(51) International Patent Classification7: 1/725, G06F 3/023

H04M 1/22,

(21) International Application Number:

PCT/EP2003/051067

(22) International Filing Date:

18 December 2003 (18.12.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

0230298.2

30 December 2002 (30.12.2002)

(71) Applicant (for all designated States except US): NOKIA CORPORATION [FI/FI]; Keilalahdentie 4, FIN-02150 Espoo (FI).

(72) Inventors; and

- (75) Inventors/Applicants (for US only): ELDON, James [GB/GB]; 8 Oakley Drive, Fleet GU13 9PP (GB). LAW-TON, Simon [GB/GB]; 45 Clifff Closes Road, Scunthorpe DN15 7HT (GB).
- (74) Agents: SEYMOUR, James et al.; Nokia IPR Department, Nokia HousellSummit Avenue, Farnborough GU14 0NG (GB).

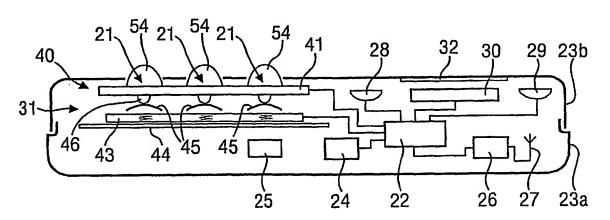
- (81) Designated States (national): AE, AG, AL, AM, AT (utility model), AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ (utility model), CZ, DE (utility model), DE, DK (utility model), DK, DM, DZ, EC, EE (utility model), EE, EG, ES, FI (utility model), FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK (utility model), SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: MULTIFUNCTION KEYPAD



(57) Abstract: A keypad comprising: a set of switches; a set of key elements each capable of being moved by a user so as to operate a respective switch; and a display device, the display pattern of from which can be varied under the control of a display controller, and arranged so as to be capable of propagating two or more patterns of light from at least some of the key elements; whereby indicia may be displayed from the key elements and the displayed indicia varied under the control of the display controller.

